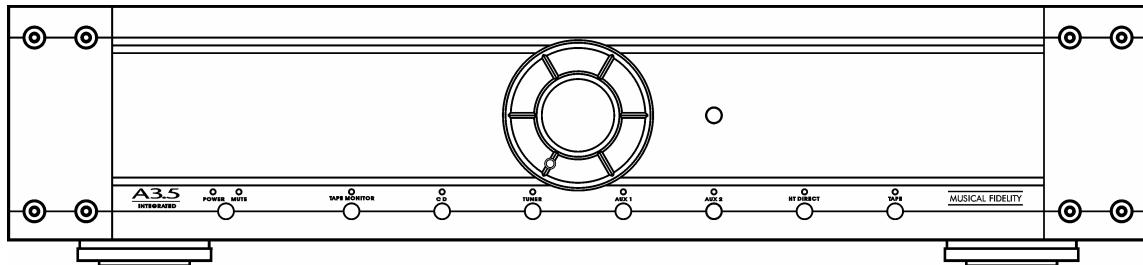


A3.5

INTEGRATED

DUAL MONO INTEGRATED AMPLIFIER



INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity A3.5 Integrated amplifier.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Aesthetically, the A3.5 Integrated amplifier is a perfect match for the A3.5 CD player.

Together they form one of the finest hi-fi systems available.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

*If you have any questions about your audio system,
please consult your dealer who is there to help and advise.*

MUSICAL FIDELITY

SAFETY INFORMATION

IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with a mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children. **It must not be plugged into a mains outlet.**

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellow.....	Earth
Blue.....	Neutral
Brown.....	Live

WARNING - This appliance must be earthed

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol: 

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

If connecting to a BS1363 plug, a 13 amp fuse must be used.

WARNING:

The A3.5 is a powerful amplifier and must necessarily supply high voltages through the loudspeaker terminals. Therefore, to avoid any possibility of an electric shock DO NOT TOUCH THE SPEAKER TERMINALS when the unit is being used. To comply with BSEN60065 safety regulations, the 4mm "banana" plug holes have been fitted with plastic blanking pieces. Removal of these will invalidate any electrical safety approval of this product.

WARNING:

Any modifications to this product not expressly approved by Musical Fidelity who is the party responsible for standards compliance could void the user's authority to operate this equipment.

GENERAL ADVICE

INSTALLATION PRECAUTIONS and USER INFORMATION

Your new A3.5 Integrated is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

Heed all warnings shown on the back of the product.

Only connect the A3.5 Integrated to a mains outlet having the same voltage as marked at the back of the unit.

Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.

Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.

Do not use near water, or place water-filled containers on the amplifier, for example, a flower vase or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use. Entry of liquid into the amplifier is dangerous, and may cause electric shock or fire hazard.**

Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.

Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent.

Note: Unauthorised opening of the equipment will invalidate any warranty claim.

Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.

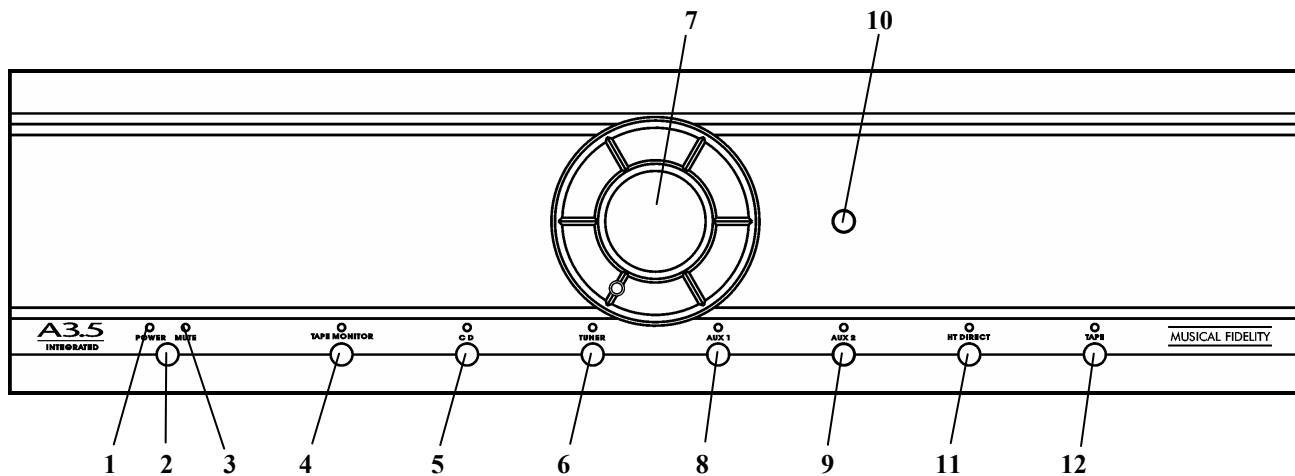
The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the A3.5 Integrated amplifier please quote the serial number located on the rear panel of the unit.

RADIO FREQUENCY INTERFERENCE (R.F.I.)

This product has been tested to ensure that its operation is not adversely affected by normal background levels of R.F.I., and that it does not itself generate excessive amounts of interference. However, if a problem persists, please contact your Musical Fidelity agent.

CONNECTIONS and FACILITIES



- 1 Power on indicator LED
- 2 **POWER** mains on/off switch
- 3 Mute indicator LED
- 4 Tape **MONITOR** button and LED
- 5 **CD** input select button and LED
- 6 **TUNER** input select button and LED
- 7 Volume control

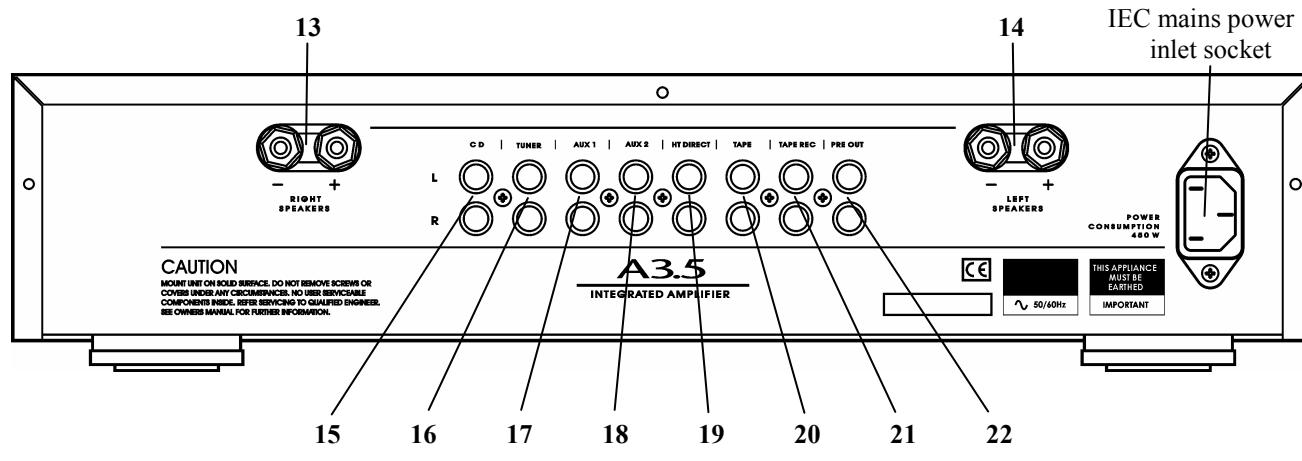
- 8 **AUXiliary 1** input select button and LED
- 9 **AUXiliary 2** input select button and LED
- 10 Infra Red Receiver window for remote control
- 11 Home Theatre **DIRECT** input select button and LED – see page 6
- 12 **TAPE** input select button and LED

FRONT PANEL

REAR PANEL

- 13 **RIGHT SPEAKER** output terminals
- 14 **LEFT SPEAKER** output terminals
- 15 **CD** input sockets
- 16 **TUNER** input sockets
- 17 **AUXiliary 1** input sockets

- 18 **AUXiliary 2** input sockets
- 19 Home Theatre **DIRECT** input sockets - page 6
- 20 **TAPE** input sockets
- 21 **TAPE RE**cord output sockets - see page 7
- 22 **PRE-OUT**put sockets – see page 6



REMOTE CONTROL

REMOTE CONTROL

The blue buttons on the remote control enable main functions of the amplifier to be operated from a convenient distance. Remaining buttons on this universal handset are for use with other, specific, Musical Fidelity products, and have no effect on the A3.5 Integrated amplifier.

Equivalent buttons on the remote handset have the same functions as those on the front panel of the unit.

As the remote control uses an invisible infra-red light beam, the transmitter must be pointed directly towards the receiver window on the front of the amplifier, without visual obstruction between them.

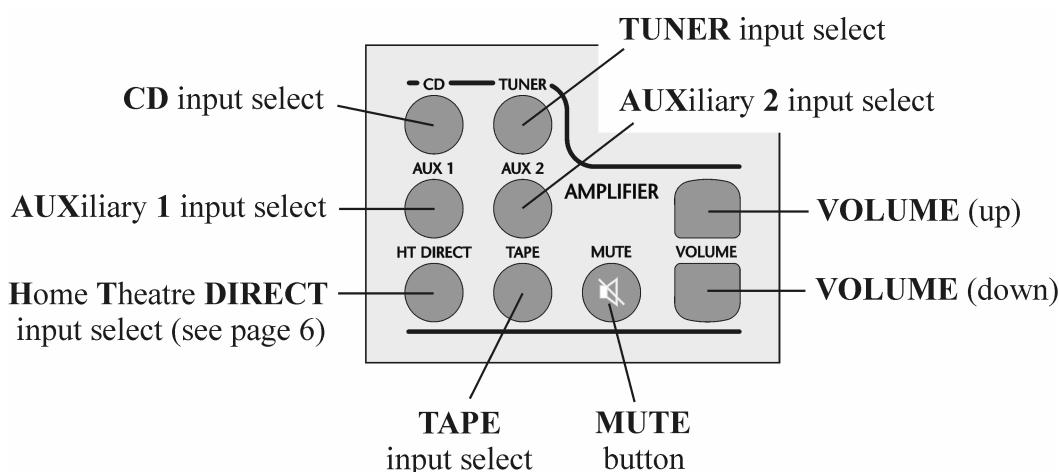
Pressing the volume-up or -down buttons on the remote handset will turn the motorised volume control in the required direction.

Pressing the **MUTE** button disables the **SPEAKER** output and **PRE-OUT** sockets, but not does not affect **TAPE RE**cord output. A red **MUTE** LED on the front panel lights to show that the amplifier is not producing power to the loudspeakers. Pressing the **MUTE** button again cancels mute function, and the red LED goes out.

If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries - two are required, size LR03 or AAA, manganese alkaline type.

Do not dispose of used batteries in a fire.

(Amplifier function buttons only)



CONNECTIONS

All input, output and power connections should be made with the mains power switched OFF.

INPUT CONNECTIONS

The A3.5 Integrated amplifier has five stereo pairs of RCA “line level” input sockets controlled by the internal volume setting. They all have the same input sensitivity, and are therefore suitable for use with any source component having an output of at least 300mV. The five sockets on the rear panel are marked **CD**, **TUNER**, **AUXiliary 1**, **AUXiliary 2** and **TAPE**, corresponding with function selector buttons on the front panel.

However, the **HT DIRECT** sockets are intended for home theatre use. When selected, they are routed inside the A3.5 directly to the power amplifier circuit, which is not controlled by the volume adjustment.



**Do not therefore connect these
sockets to a source without its own
volume control.**

TAPE RECORDER CONNECTION

The A3.5 Integrated has a single tape circuit with facilities for off-tape monitoring with 3-head tape decks (see page 7).

The tape deck's left and right line outputs are routed to the amplifier's **TAPE** (input) sockets, and the tape deck's line inputs are connected to the amplifier's **TAPE RECord** (output) sockets.

PRE-AMPLIFIER OUTPUT

The A3.5 Integrated amplifier has its pre-amplifier output available from RCA sockets on the back panel marked **PRE-OUT**, and is controlled by the volume adjustment.

This is to allow “bi-amplification” using suitable external amplifiers and crossover networks to power the speaker drive components separately, giving noticeable improvement in clarity, imaging and bass weight.

In this arrangement, typically the A3.5’s speaker outputs are used to drive the speaker’s “tweeter” (high audio frequencies), and an external stereo amplifier drives the “woofer” (low frequencies). The A3.5’s **PRE OUT** RCA sockets would therefore be connected to the input of the external “woofer” amplifier in this example.

If you are in doubt about bi-amplification, please contact your dealer for advice.

SPEAKER OUTPUT CONNECTIONS

Connect your loudspeakers to the terminals on the back panel marked as **LEFT** and **RIGHT SPEAKER** outputs.

BEFORE SWITCHING ON....

Plug the accessory IEC mains lead into the rear panel socket, then the other end into a wall outlet.

Turn the volume control on the front panel to minimum (anticlockwise).

OPERATION

STARTING . . .

Press the **POWER** button on the front panel of the A3.5 amplifier - the blue **POWER** LED above the button will light indicating that the unit is ready for use. However, for about five seconds no sound will be heard from your speakers, and the red **MUTE** LED near the button will not be lit, confirming initial mute action.

Unless using your amplifier for off-tape monitoring (see paragraph opposite →) ensure that the **TAPE MONITOR** button has not been pressed accidentally, as otherwise no sound will be heard through the speakers.

Select the required audio input source by pressing an appropriate function button on the front panel or remote control, and adjust the volume control to obtain the preferred sound level.

TAPE RECORDING

To record, simply select the required source with the input selector button on the front panel or remote control. This source will now be routed to the A3.5's **TAPE RECord** output for recording by the external tape deck. You will also be able to hear the selected source through the loudspeakers.

Note - adjustment of the volume control has no effect on the recording level.

OFF TAPE MONITORING

In conjunction with a 3-head cassette deck, off-tape monitoring allows the user to compare recorded sound with the original whilst a recording is being made (see page 6 for connection details). To do this, first select the required source in the normal way and start recording.

The **TAPE MONITOR** button on the front panel can now be used to switch between the original source sound and the recorded version, allowing direct comparison. The blue LED just above the button is lit when the tape monitor function is operating, confirming that the recorded sound is selected.

On some 3-head tape decks there is an additional 'tape/source' switch, which must be in the 'tape' position for the above to work.

If in doubt, please refer to your tape deck operating manual.

PROBLEMS ?

Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power when POWER button is pressed	Mains power plug is not fully inserted into rear socket	Plug in securely
No sound	Tape monitor function has been selected (see page 7)	Switch off tape monitor
	Mute function is still active (mute LED is still on)	Press the MUTE button on the remote control to cancel
	Wrong connections between input sources and the A3.5	Check audio input lead connections
	Speakers not connected, or incorrectly wired	Check speaker cables
Sound is not precise, lacking in bass and stereo image	Speakers are connected out of phase, i.e., connections to one speaker (+ and -) are reversed	Ensure speakers are connected correctly
Hum	Audio connector plug not fully pushed in	Insert plug securely.
	Connector cable is faulty	Check that the cable outer shield (screen) connection has not become damaged or detached inside the plug
Remote control does not work	Amplifier's POWER switch is set to off	Set switch to on
	One or more batteries fitted the wrong way round	Insert batteries correctly
	Batteries are flat	Change batteries – do not mix old and new ones
	Remote control is not pointed directly towards the front panel of the amplifier	Ensure there is no obstruction between the remote control and amplifier front
Remote control range has greatly reduced	Batteries are running out	Change batteries – do not mix old and new ones

If none of these actions effect a cure, please contact your dealer, or an authorised Musical Fidelity service agent. Remember, never open the case of the A3.5 Integrated amplifier yourself, as this will invalidate the guarantee.

A3.5

DUAL MONO INTEGRATED AMPLIFIER

SPECIFICATIONS

Output : Power :	150 Watts per channel into 8 Ohms (22dBW), 240 Watts per channel into 4 Ohms
Voltage, RMS :	34 Volts 20Hz to 20kHz
Voltage, Peak-to-peak :	96 Volts
Current peak-to-peak :	50 Amps
Damping factor :	142
Output devices per channel :	4
Pre-out impedance :	50 Ohms
Line inputs :	
Total harmonic distortion + noise,	< 0.01%, 20Hz to 20kHz
Signal / noise ratio :	> 100dB 'A'-weighted
Input sensitivity for 147 Watts into 8 Ohms :	282mV
Input impedance :	100k Ohms
Overload margin :	26dB
Channel separation :	> 82dB typical
Frequency response :	20Hz to 20kHz, +0, -0.1dB
Home Theatre direct input sensitivity :	30dB gain (31.5 times) nominal
Inputs :	5 pairs line level RCA connectors, 1 pair direct power amplifier input RCA connectors for Home Theatre use (not controlled by volume adjustment)
Outputs :	2 amplifier channels via 1 pair binding posts per channel 1 pair RCA audio outputs controlled by the volume, 1 pair RCA tape record fixed line level output.
Power requirement :	100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set), 450 Watts maximum into 8 Ohms, 36 Watts idle
Weight :	9.7 kg, 21.4 lbs unit only, unboxed 14.4 kg, 31.8 lbs in shipping carton
Dimensions :	440 mm, 17.3 inches wide 100 mm, 3.9 inches high including feet 395 mm, 15.6 inches deep including terminals
Standard accessories :	IEC type mains lead (10-Amp type), Remote control handset (A3.5 type, universal), 2 batteries size LR03 or AAA, manganese alkaline type 3.5mm stereo jack plug to two RCA plug audio lead (1metre) for accessory connection (iPod, MP3 etc.)



Musical Fidelity reserves the right to make improvements which
may result in specification or feature changes without notice.

REVISION HISTORY

RELEASE	DATE	CHANGES
Issue 1		
Issue 2	22 nd March 2005	Update specifications
Issue 3	14 th April 2005	Added revision history